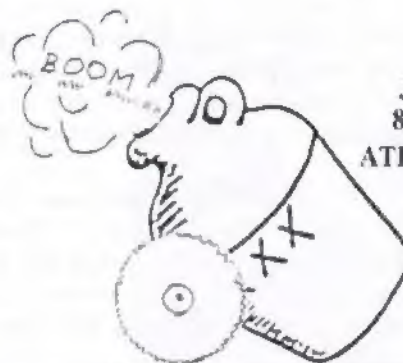


THE NCCC

NEWSLETTER OF THE NORTHERN CALIFORNIA CONTEST CLUB

JUG



EDITOR, W6ISQ
JOHN G. TROSTER
82 BELBROOK WAY
ATHERTON, CA., 94027

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PRESIDENT: KA6ING V.P./CONTEST CHAIRMAN: N3AHA SECRETARY./TREAS: KJ6LD
DIRECTORS: W6ISQ WA6SDM N6TV WZ6Z

FIELD DAY DEDICATED TO PHIL FRAZIER, K6ZM

NCCC Field Day was a great success. The glorious gladiators gladiated and the culinary cooks culinated. All present joined in the spirit of the day and had a most enjoyable furor. This Big One took place at K6ZM's, Field Day site this year. There were many family visitors who also enjoyed the occasion and the company. As it happened, the food flowed faster than QSOs on the very poor ten meter band, so it was good to have such a great menu and fine company.

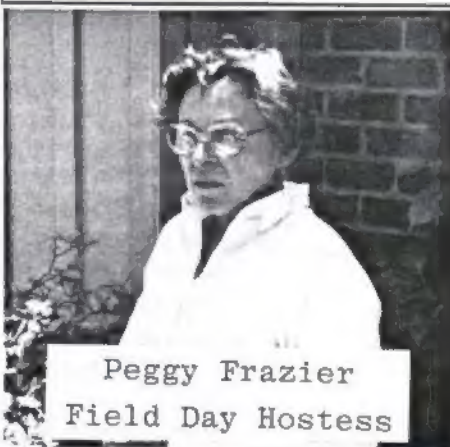
NCCC used the call N6OP, which belongs to Bill Zachary, former NCCC ruler and writer of skill on contest subjects. Bill came out of radio retirement to organize the project and work with members to putting up towers, wiring equipment, plus operating the rigs.. He admitted he had never used a computer logging system, but, as one might expect from an old pro, it took him only about 47 seconds to figure it out. It was Bill's personal wish to do this work in Phil's memory. All workers and operators that day, felt the same way.

First on site were the tower and antenna erectors. There was N6OP, N6VV, K6XV and W6PJY. The latter three form a well-organized team which ventures forth on FD and CQP and knew what to do and
(FIELD, con't page 2)

JULY MEETING FRIDAY, JULY 19 MIGUEL'S HAYWARD

Gather and Chatter 6:00 p.m.
Order from Menu 6:30 p.m.
Eat muy bueno 7:00 p.m.

Program
W0ZZ: CONTEXpeditions



Peggy Frazier
Field Day Hostess

K6ZM FLEA MARKET
Saturday July 27. 10AM - 2PM
Available to NCCC and NCDXC
members ONLY. Garage sale of some
of K6ZM's equipment. Contact N6OP
W6PJY or WB6MZQ for further info.

THE BRESE FROM LOUESE

Following is an almost accurate transcript of the monthly confrontation between President and Editor.

W6ISQ: So what do ya wanna tell these Miserable Characters (MCs) this month?

KA6ING: They are not Miserable Characters. They are nice people.

ISQ: We'll tell them too. Now, what do you want to say?

ING: We want to eat earlier at the meetings, so we can QRT earlier. From now on we gather from 5:30 to 6, order from the menu at 6:30. Then the MCs, ahhhhhh, the crowd, may continue to mingle around and consider muntitudinous, momentous matters and problems of today until chow is on the table about 7.

ISQ: OK, we will order at 6:30 over at Miguels. What else for your MCs?

ING: We have investigated our Buy Laws and consulted with legals who tell us we can reinstate former members without their even being at the meeting.

ISQ: That's good news for former members who have a hard time getting to meetings to reapply. Is that right?

ING: Correct. We ask members to contact former members to tell them

(BRESE con't page 2)

(Field, con't from page 1)

how to do it. This crew found towers and antennas and put them up, joined by muscle men **WR6R** and **WB6MZQ** who helped with the grunting.

HF equipment was brought in by **N6VV**, **WR6R**, **N6TV**, **N6XI** and **K6XV**. There were 5 - TS930s, 1 - TS850, 1 - TS950 and 1 - TS440, plus boxes for 2M and 450. **N6OP** was in the 9-D low power class so no finals were used. **N6TV** supplied the low pass filters and **N6VV** was the key man in putting all this stuff together. Several times during the contest nine rigs were transmitting simultaneously! See later in this story for **N6TV**'s description of the computer logging system used.

N6OP had a world championship operating team which included **W6BSY**'s granddaughter **SARAH**, **KC6QHA** who did a fine job on 15 meter fone, and **N6EK**'s **XYL SUSAN**, **KB6VVX**, who hung in there on miserable 10 meter for what it was worth. Susan and Bob were practicing for their October CQWW date in Palau.

Other TOPOPS were **N6OP**, **N6TV**, **N6VV**, **K6XV**, **W6XX**, **W6RGG**, **N6XI**, **WC6H**, **WR6R**, **N1EE**, **N6EK**, **K16EZ**, **KB6VVX**, **WB6MZQ**, **W6BSY**, **N6RO**, **KC6QHA**. Did we miss anyone? **W6ISQ**'s contribution to the operating effort was to not operate. Otherwise the computer logging system might have been completely destroyed.

The hard working, herb dispensing crew responsible for keeping the inner engines running comprised cooks **PEG FRAZIER**, **N6VV**'s **XYL LINDA**, **WR6R** and **WB6MZQ**. Chefs **WR6R** and **WB6MZQ** hovered over the barbie like mother hens, grilling chicken and huge Polish hot dawgs. The table creaked under the load of all the correct picnic goodies. On demand (loud groans and howls) the chefs donned waiters garb and delivered heaping plates of things to the operators at their positions. It must have been good because it was rumored that **W6RGG** established a new eating record which wore out the waiters. It was said to have been the most amount consumed by a single operator since Rick, "The Locust", **K6VVA**, established the record 17 years ago. This story may be completely apocryphal; the judges are still debating. The score looked like this:

	CW Qs	SSB Qs
160	0	0
80	139	134
40	366	241
20	655	1040
17	17	4
15	306	409
12	0	0
10	0	49
2	0	38
450	0	1
NOV	0	0
SAT	0	0
PKT	0	0
TOTAL	1483	1916
- "D" Qs	229	321
Good Qs	1254	1595

TOTAL SCORE:
8206
Class 9-D

(Field con't page 3)

(Brese, Con't from page 1)

about rejoining easy-like. Call a friend.

ISQ: All the MCs are crazy with joy. Anything else?

ING: Our July program is designed for folks who have never been on a CONTEXpedition and were always afraid to go because of the hassle of lugging along a trailer full of equipment. Well, our Program Chairman **John, W0ZZ**, will present an educational slide show to tell how and what to do for an easy CONTEXpedition event. Y'all come. We want more travellers.

ISQ: John always does a great job. What other goodies?

ING: For our NCCC picnic on August 24, at Coyote Point (map in next issue), we need volunteers to help with food preparation. This year the club will provide pickled pigs feet, grunion, rabbit rump, plus chicken and spare ribs for those on a diet, corn-off-the-cobbe, smashed spuds, thrown salad, H2Omelon and the usual drinks. Just bring ten green ones and the management does all the work this time. What a deal! Time: 10 - 2, After 2, please, management will need MC volunteers to help clean up. Please call Louese on 24/84, or packet, or PacBell, or see her at the next meeting. Volunteers please volunteer.

ISQ: Sounds like a weener. Let's don't leave Louese and Larry alone out there to clean the park. Ya got any more Biggies? Make it snappy. You're invading my space.

ING: We got a biggie. **JIM, W6CF**, will have at the picnic his famous, fanny-flicking exercise machine that also sends Morris code. That's right folks, it's the very same Sitzblatz maker that was the hit of the First International F & F at Visalia, but upon which most of you were afraid to sit. You may now try it out in the privacy of our own public park. Prizes for the weeners.

ISQ: Yes, folks, this is certified to be to very same machine that bedazzled attendees at the First International F & F. Since that time, the machine has been borrowed by one club after another for use at hamfests all over W6. Its owner **W6CF**, will be at the picnic to give lessons, recite limericks, and to referee the rodeo.

ING: Gotta get back to my boys on 24/84.

ISQ: Thanks Madame President, I'll get the word out. CU next month.

EXTRA DONATION.

There is a shortfall in the budget again this year, and even the budget is under budget. Last year, we made up a shortfall of about the same amount as this year's, by asking members to send in something extra with their dues, and it worked. The Board would like to try that method again. We are investigating other ways, but so far, even though we are sorry to have to do it, this seems the best way.

If there is a red cross on your mailing label, you will know that you haven't yet paid your dues. So, there's your chance. Include an extra donation when you send them in! If the extra donations total over \$500, a matching gift of \$100 each will be triggered from five anonymous club members. And if you'd like to be an anonymous \$100 extra donor, please contact **KA6ING** or **KJ6LD**. All contributions and contributors are much appreciated.

Send dues and donations to **Henry, KJ6LD**, Roster QTH.

(Field Day con't from page 2)

NCCC thanks PEG FRAZIER for her gracious hospitality. She is used to things like a house full of hams over a weekend for a contest because of the many years of Phil's multi-multi contest operations. But a FD crowd is much larger and spreads over the whole house and yard. That made it fun for everybody. Great Qs from nine transmitters going on inside the house, and great conversation going on outside the house around the barbie. Thanks Peg. Your hospitality made the day a doubly memorable one that Phil would have been proud of.

FIELD DAY COMUTER USAGE de N6TV. Nine computers were used to keep logs, one per operating position. Three IBM PS/2 Model 70s, two Toshiba laptops, a Zenith and other IBM clones.

Most of the machines were supplied by Lew, N6VV, others by K6ZM's XYL Peggy. Three of the computers were connected, enabling each position to know about all call signs worked at the other positions, and eliminating the need for backup. One of the connections between computers was maintained via a packet radio link rather than via cable, because we ran out of cable. It really worked. The technique is documented in the April issue of the JUG (read JUF—ed). It is very useful for connecting remote sites without the need for cables.

We used the latest version of K1EA's CT program for Field Day. Version 7.06 worked very well. It was many OTs first experience using computers for contesting but everyone seemed to get the hang of it quickly. Without computerized contesting the logs would have been a mess. In the end, the logs contained only 60 dupes. Most of these dupes came about because the operator decided to record the QSO rather than waste time telling the other station "we wkd B4".

W6ISQ CONFESSIONS of CASUAL CONTESTER

XYL Maggie, KC6NFE, and I recently took a mini-vacation to Taos and Santa Fe, down Old New Mexico way. We were there perhaps 20 years ago, so were pleasantly surprised to find the Mexican restaurant on the square in Taos, where we had eaten then, was still there. We remembered this restaurant fondly because it was there that we first had sopapilla, the Mexican fried bread dessert served with honey. A delightful treat.

So we went into the restaurant and got our sopapillas. The honey was in those little restaurant, plastic containers, the kind they package jelly in, which one has to tear the plastic top off of to get to the goodies. Well, I wonder if there is anyone out there who can handle honey in any container whatsoever without getting it on oneself. I am not one of them, so with dread, I pulled back the tab, and surprise!, got only a little smidge of honey on my finger. Not bad. Better than expected. I then poured out a dollop of honey and tried to cut it off in the container. Yuk—there was a long string of honey extending from the container to the sopapilla. I lifted the container higher, made circles, quick snapping it up and down. Finally the stringer broke. About to beam in triumph, I looked down. In the gyrating process a large blob had formed, cascaded out of the container, onto my jacket, my shirt, and into my glasses case.

Should I clean or eat? Eat. Don't touch the honey yet, it will

smear. Oops, too late. How does one control honey? It's viscous and ought to be slow moving. It ain't, folks.

I finished off the honey and sopapilla and headed for the restroom. By now honey was on all fingers, and the drops on my clothes had cascaded more than a little farther on down. In the head, I tried to clean off the honey with soap and hot water. Fairly good job, thought I. Back to the table. More honey unseen on the table. Stuck again. Back to the head to clean arms of jacket. More globs on front of jacket. Let's get outa here!

Of course, I am thinking all the time about our Bee Editor, Cass, WA6AUD, and his exciting bee serial, THE ODD ONE, running exclusively in the JUG. What I am thinking I will not say because this is a family magazine. However, we will contact Cass and request a sequel about how to keep the stuff off of where it shouldn't be. So much for nostalgia.

Next day we are browsing around in Santa Fe. Let me re-phrase that. Maggie is browsing (read shopping vigorously). I am browsing briskly for a place to sit, when I spot in a display case a Burt's Beeswax Face Soap". I ask the saleslady to see a bar. I read on the wrapper: "A gentle creamy face soap containing olive oil, coconut oil, beeswax, comfrey and honey. Soft on your skin and the environment." Sounds good enough to eat. Is this soap or a candy bar? It says further, "Hand-made in small batches with your satisfaction in mind." I am not sure how small batches are going to satisfy me, but I'll take a chance. And it is made by Burt's Bees in Parkman, Maine. Maybe that's where the satisfaction comes in.

I theorize that if this soap is made from honey for washing the hands, perhaps it has mysticals that are made specifically to eradicate honey from my person. I am desperate, you see. What I really need to know is how to keep the honey off me in the first place. Look, it did say the soap was made with my "satisfaction in mind." Can I now eat my honey and slobber too? Will this honey soap actually soak up and disperse honey dribbles?

I cannot imagine taking honey out of a bee hive box and not getting stuck tight to the hive by that very same honey I'm trying to liberate. Nature's little way of protecting its goodies. I'll ship a bar of good old Burt's Beeswax to Cass for evaluation. I hope you can wait for next month. Meanwhile, I'll try not to get stuck to the bar of Burt's Beeswax soap.



PLATTER CHATTER

At the last meeting at the Wagon Wheel we managed to pry loose these secrets.

Some of you may have read the incorrect account in the papers, of the court appeal of NCDXC MEMBER, UNCLE VERN, W6ERS, which stated that he had lost the 51 foot tower-height case, brought against him. Wrong. It was not the tower-height case that was lost in the Appellate Court. Indeed that was upheld (Little joke). What Uncle Vern lost was his appeal for reimbursement of court/attorney expenses. This correction was reported by W6OAT. Any questions call ERS or W6OAT. Ed. sees little lesson here: Never believe anything you read unless it is in the *JUG*!

BOB, N6EK worked AA-CW. Says he is getting a Kansas City keyer and will bring it to the next meeting with full report. CHARLIE, K16YB, just back from a coupla months in Egypt. He, N6EK and EK's XYL SUSAN, KB6VVX, will go to Palau for CQWW-SSB. Fe2O3, W6OAT, was point man for the NCDXC petition to the DXAC to get North Korea approved for new country status. Thanks Rusty. You going?

BOB, W6RGG, had one of my IOUs for a DUB and demanded payment. Also, DAVE and BARB had one IOU each for a DUB and also demanded payment. Very embarrassing. What could I do? Maggie was not at the meeting, so naturally, I blamed her and gave out more IOUS in self defense. Wonder how many are out there?

LLOYD, W6KG related how IRIS, W6QL, used to spoon feed him meals during contests! That was in the rugged pencil-logging days of yore! JIM, WA6SDM, has had a pretty exciting summer so far. He's painted his house. When that gets boring, he watches birds sit on his antenna. Some of our NCCC TOPOPS were scattered to other clubs for FD. W6VG to PAARA (Palo Alto), W6CF to K6BJ (Santa Cruz), W6OSP, K6TMB, W6OAT to Redwood Empire (?). N3AHA was hoping to go mobiling. New member, LOU, AL7IF, was present with XYL BETSY. Welcome aboard, folks.

D-104 MYSTREY

Borrowed D-104 mike may be lost! Seven or eight years ago, W6ISQ borrowed a beautiful D-104 mike from K6TMB. Or was it that W6ISQ was forced to accept the borrowing of this D-104? Memory clouds. In any case, W6ISQ, has worked many new ones with it: Bouvet, Barnaba, Rotuma, Conway, and the rest a them prized ones. He is exceedingly grateful to TMB for the borrow. But now, TMB wants the D-104 back!

To put it mildly, this is embarrassing. You see, ISQ used this mike only on new ones. He kept it in a special drawer, but someone moved the drawer and its cabinet just before ISQ cleaned out the garage—or was it after? During? ISQ realizes that TMB could indeed want this D-104 back, so ISQ will institute a mike search, and when, or if, found, will return it to TMB at an NCCC meeting.

(Anybody know if BFI keeps a record of valuable things taken to the dump?) Please plan to attend the "D-104 Welcome Back" presentation at a future NCCC meeting, date to be determined when mike is located. P.S. Actually, I would really like to **not** find that best-of-all-mikes until after a ZA operation. Maybe I'll fake it. One *could* think Maggi put it somewhere. That little ol' mike may yet have the honor of giving me DXCC #1 on SSB.

TROSTEROSTER

ARMOND NOBLE, N6WR, goes to the top of the Roster this month. He put us on the front wrapper cover of *Worldradio* again, which will surely scare a lot of constipated birds sitting on their roosts looking down at that wrapper paper. Perhaps he is getting even with us for printing that slightly curious picture of him and NORM, K6FO, in the *JUG*. That was supposed to illustrate a "before" picture—before he learned me how to take pictures gooder. But I think Armond is now out of pictures of us. You are, aren't you, Armond?

Armond is teaching me how to take good pictures for the *JUG*, and has suggested using black and white film. Accordingly I will take some black and white's at Lloyd and Iris' July 4 bash and we will see how much I learnt. All fotos this month, and in *JUGs* past, are from color prints.

Congrats to NCCC friend ERIC, W6DU, who was elected president of the NCDX Foundation replacing NCCC's RUSTY, W6OAT. Great job Rusty! VP is NCCC's own, and owner of the lost D-104, LOU, K6TMB. Treasurer is BRUCE, W6OSP, also one of to NCCC's own.

NOTICE. How can we have a NCCC without a logo? Answer: we should have a logo! So, the Bored of Direktors of NCCC appointed W6CF, to create a contest to find the best NCCC logo. All members should participate. Send in your ideas to W6CF immediately. Actually, the contest may be over before it started because W6ISQ has a tererific idea for the logo: a pen and ink drawing of two muscular arms (mine and whose else?) locked in armed combat. What is the prize, James? Just in case I don't win for some petty reason, better send in your suggestions pronto. In addition to the prize W6CF names, a DUB IOU will be issued not only to the winner and up runners, but to each who submits an idea.

NCCDXC ?? What do W6CF, W6ISQ, W6OAT AND W6QHS have in common? They believe in gradually re-uniting NCCC and NCDXC in some way. Could begin by forming a single club unit with separate divisions, but with no distinct dividing line between the two present groups. Can we discuss this yet? Don't panic or quit the club! Didn't say it would happen in August or any time yet. Just thinking. We'd like to have your ideas and thinking about this.

FREEBIE FOTOS. During the past year, W6ISQ has taken photographs at many club functions. Some have been published in the *JUG*, albiet some pretty poorly reproduced. It's now give-away time. ISQ will bring remaining photos to the next several club meetings and circulate them. All are invited to take any they like.

CONDOLENCES to BIP, W6BIP. He slipped and cracked his knee on a cabinet, and wound up in the hospital. Got home and entered the All-Asia, but a few hours into the contest, he developed complications and had to go back into the hospital. He's back charging now, however, and is buying tickets for himself and Elsie to go the the National ARRL Convention in Michigan. Don't forget your original blinking CQ ID badge and whirley-gig hat, Bip!

THRILLS. Imagine the thrill of seeing your name and call in print. Write something for the *JUG*!! Ham tips for special conditions, computer programs that work, how you got started in hamming, club comments, contests and which you like best and or least. Be creative! We'll print it, and what's more, you'll win a DUB too.

Compiled by KJ6LD & WN4KKN

AA6AD	Bruno Bienenfeld	831 Corvallis Drive	Sunnyvale	CA	94087	408 732-3377	
N3AHA	Ace Jansen	51 Kenbrook Circle	San Jose	CA	95111	408 224-3017	408 756-4080
K6ANP	Len Gerald	172 Farview Road	Great Meadows	NJ	07838	201 637-6481	201 829-2956
K6AUC	John Larson	7070 Monte Verde Drive	El Sobrante	CA	94803	415 223-3333	415 222-5602
WA6AUE	Jim Duffy	P.O. Box 8820	Truckee	CA	95737	916 587-2730	
WX0B	Jay Terlesky	2635 Dryden Avenue	Gilroy	CA	95020	408 842-9904	408 987-6114
W6BIP	Bip Bachman	880 Dartmouth Street	San Francisco	CA	94134	415 239-7151	
N6BIS	Patty Winter	P.O. Box 537	Menlo Park	CA	94026	408 734-0696	
K6BR	John Naylor	P.O. Box 770-4	Burlingame	CA	94011	415 344-7793	
W6BSY	Mac McHenry	1612 Via Escondido	San Lorenzo	CA	94580	415 276-7273	
N6BT	Tom Schiller	1873 Granger Avenue	Los Altos	CA	94022	415 964-5554	408 727-7673
N6CCL	Larry Lemas	4647 Michelle Court	Union City	CA	94587	415 489-0416	415 464-6639
W6CF	Jim Maxwell	P.O. Box 473	Redwood Estates	CA	95044	408 353-2094	408 742-8273
KI6CG	George Staudacher	21725 Irma Lyle	Los Gatos	CA	95030	408 353-2188	408 734-8200
AG6D	Al Elge	205B California Avenue	San Martin	CA	95046	408 683-4996	
NX6D	Dave Walker	848 Prospect Heights	Santa Cruz	CA	95065	408 425-3741	408 475-6800
N6DA	Don Amyx	32421 Jean Drive	Union City	CA	94587	415 489-6643	415 791-4240
WA6DIL	Dave Wilkinson	3896 Larkspur Drive	Concord	CA	94519	415 689-8494	415 939-4420
W6DPD	Chuck McConnel	1658 West Mesa Avenue	Fresno	CA	93711	209 431-2038	
WB6DSV	George Varvitsiotis	2504 Buena Vista Avenue	Belmont	CA	94002		415 831-1771
AD6E	Al Maenchen	3330 Farthing Way	San Jose	CA	95132	408 926-1549	408 490-5223
NT7E	Harry Hart	5610 Street Andrews Court	Reno	NV	89502	702 359-5616	702 825-8800
N1EE	Scott Lieberman	3200 Payne Avenue #714	San Jose	CA	95117	408 379-6185	
N6EE	Ron Lodewyck	1240 Forest Drive	Turlock	CA	95380	209 667-0850	209 667-3280
W6EBN	Don Doughty	42-605 Byron Place	Bermuda Dunes	CA	92201	619 345-8780	
N6EK	Bob Fabry	1175 Colusa Avenue	Berkeley	CA	94707	415 527-7655	
K3EST	Bob Cox	1816 Poplar Lane	Davis	CA	95616	916 758-7422	916 752-3910
KI6EZ	Alex Rabinovich	136 Casitas Avenue	San Francisco	CA	94126	415 334-2333	408 747-0300
W6FAH	Bob Craft	8136 Grenoble Way	Stockton	CA	95210		
KJ6FD	Jeff Kershaw	489 Crosslees Drive	San Jose	CA	95111	408 227-6867	415 570-5300
W1FEA	Jack Morgan	2040 Pheasant Hill Lane	Auburn	CA	95603	916 878-1150	
W6FSJ	Wendell Peirce	2362 Nyla Drive	Napa	CA	94558	707 253-2447	
NB6G	Dave Rietz	4509 Olivegate Drive	Fair Oaks	CA	95628	916 965-5429	916 962-0207
N6GG	Rich Lawton	14395 Bevers Way	Pioneer	CA	95666	209 295-5093	
N6GJ	Greg Jenkins	16387 Astec Ridge	Los Gatos	CA	95032	408 354-1260	408 356-2345
K6GSS	John Hultquist	188 Noe Street	Kihei	HI	96753	808 879-9321	
KS6H	Jim Danley	Box 131	Union City	CA	94587	415 791-2707	415 475-2188
K6HIH	Cliff Beck	7530 English Hills Road	Vacaville	CA	95688	707 448-7939	
KC6HNB	Ken Sakamoto	474 Beckham Drive	San Jose	CA	95123	408 972-9887	408 256-8298
K6HNZ	Ken Ruddock	P.O. Box 20256	Oak Creek	AZ	86341	602 284-2069	
AL7IF	Lou Tozzi	637 Los Robles Avenue	Palo Alto	CA	94306	415 856-2145	415 726-6588
N6IG	Jim Pratt	3603 Ridgeview Drive	El Dorado Hills	CA	95630	916 933-6771	916 324-6971
KA6ING	Louise Bloom	2520 Heather Lane	San Bruno	CA	94066	415 583-5333	
N6IP	Bob Wolbert	3534 Pine Creek Drive	San Jose	CA	95132	408 258-1015	408 730-3415
W6ISQ	Jack Troster	82 Belbrook Way	Atherton	CA	94025	415 854-3939	
W6JKV	Jim Treybig	27200 Altamont Road	Los Altos Hills	CA	94022	415 948-3865	408 865-4503
N6JL	John Lawrence	12360 Indian Rock Way	Los Gatos	CA	95030	408 867-2425	415 964-9300
KN6K	Keith Butts	409 Bundy Avenue #8	San Jose	CA	95117	408 248-3849	
NC7K	Tim Marek	360 Prestige Court	Reno	NV	89506	702 972-4722	702 358-8822
W6KG	Lloyd Colvin	5200 Panama Avenue	Richmond	CA	94804	415 525-0756	415 524-1177
W6KH	Dick Le Massena	131 Old Adobe Road	Los Gatos	CA	95030	408 379-2868	408 737-2000 x2229
WN4KKN	Trey Garlough	330 Walnut Avenue	Santa Cruz	CA	95060	408 457-8877	408 427-4366
K6KLY	Russ Bentson	3432 Lodge Drive	Belmont	CA	94002	415 592-3165	415 493-4141 x2552
N6KT	Rich Smith	4929 Paseo Olivos	San Jose	CA	95130	408 374-6123	209 442-4221
AA6KX	Bruce Sawyer	15430 Bohlman Road	Saratoga	CA	95070	408 741-0518	415 962-7178
W6KZJ	Larry Daily	1601 Arroyo Avenue	San Carlos	CA	94070	415 593-9150	
NB6L	Don Artru	2225 Sunset Road	Brentwood	CA	94513	415 634-8041	415 484-4800
KA6LAF	Jeff Kinzli	611A Luneta	San Luis Obispo	CA	93401	805 541-8305	
KJ6LD	Henry Stewart	6672 Elwood Road	San Jose	CA	95120	408 268-3716	408 748-3966
K6LRN	Dick Wilson	P.O. Box 4212	San Rafael	CA	94913	415 472-4669	
WX6M	Rich Hudgins	P.O. Box 159	Vacaville	CA	95696	707 448-9379	
K6MA	Stan Kuhl	1149 Heatherstone Way	Sunnyvale	CA	94087	408 736-8358	
N6MG	Vern Buerg	456 Lakeshire Drive	Daly City	CA	94015	415 992-2733	415 991-0644
K6MO	Stan Andrews	2432 Melendy Drive	San Carlos	CA	94070	415 591-1086	415 591-8411
WB6MZQ	Steve Demetrescu	39 Ardilla Road	Orinda	CA	94563	415 254-3350	
N7NG	Wayne Mills	P.O. Box 1945	Jackson	WY	83001	307 733-2670	307 733-3036
WA7NIN	Pat Bacon	3450 Conte Drive	Carson City	NV	89701	702 882-3916	
W6NLG	Gordon Girton	P.O. Box 60031	Sunnyvale	CA	94088	408 253-8688	
W6NV	Oli Sweningsen	88 Redwood Terrace	Orinda	CA	94563		

W6OAT	Rusty Epps	651 Handley Trail	Redwood City	CA	94062	415 365-5918	408 441-1166
N6OM	John Gibson	808 Kilbirnie Court	Sunnyvale	CA	94087	408 245-3369	
W6OSP	Bruce Butler	4220 Chardonnay Court	Napa	CA	94558	707 255-5424	707 257-1880
W6OWQ	Bill Jackson	2873 Lakeview Drive	Nice	CA	95464	707 274-2289	
WX7P	Dave Lowery	3148 Wildewood Drive	Concord	CA	94518	415 682-7710	415 671-3518
AA6PG	Dave Stamm	12341 Stonebrook Court	Los Altos Hills	CA	94022	415 948-0186	408 428-2010
K6PJY	Dan Ramsey	2726 Roosevelt Lane	Antioch	CA	94509	415 757-8148	
K6PU	Ken Anderson	P.O. Box 934	Los Gatos	CA	95031	408 353-4466	408 473-4342
N6QC	JW Reimer	1528 Colwood Drive	Petaluma	CA	94954	707 763-9715	707 527-5555
W6QHS	Dave Leeson	15300 Soda Springs Road	Los Gatos	CA	95030	408 353-1927	408 732-4000
W6QL	Iris Colvin	5200 Panama Avenue	Richmond	CA	94804	415 525-0756	415 524-1177
KK6QM	Barb Leeson	15300 Soda Springs Road	Los Gatos	CA	95030	408 353-1927	
AA6QY	Hersh Stansch	1917 Dandini Circle	San Jose	CA	95128	408 295-4492	408 295-4492
WR6R	Al Crespo	111 Scenic Drive	Orinda	CA	94563	415 254-3233	415 553-9303
N6RA	Tom Gallagher	225 Topaz Way	San Francisco	CA	94131	415 285-7895	415 362-5556
W6REC	Duane Ansherman	13827 Sargent Avenue	Galt	CA	95632	209 745-3935	
K0RF	Chuck Cullian	706 San Simeon	Sunnyvale	CA	94086	408 736-3217	408 742-7237
W6RGG	Bob Vallo	18655 Sheffield Road	Castro Valley	CA	94546	415 537-6704	
W6RJ	Bob Ferrero	241 Santiago Lane	Danville	CA	94526		415 831-1771
K6RK	Chuck Patterson	3101 Withers Avenue	Lafayette	CA	94549	415 934-3419	
N6RO	Ken Keeler	Route 2 Box 177C	Oakley	CA	94561	415 625-2707	415 932-4949
AF6S	Dave Barton	14842 Nelson Way	San Jose	CA	95124	408 377-1707	
NF6S	Larry Word	3944 Dartmouth Way	Livermore	CA	94550	415 499-9195	408 434-2528
NU6S	Tim Coad	10292 Judy Avenue	Cupertino	CA	95014	408 998-1572	
WA6SDM	Jim Hollenback	1892 Bethany Avenue	San Jose	CA	95132	408 923-4074	408 447-0725
WB6SHD	Rob Van Geen	6977 Empire Grade Road	Santa Cruz	CA	95060	408 458-9779	408 285-1606
K6SIK	Bill Franzwa	3538 Arcadian Drive	Castro Valley	CA	94546	415 538-6383	415 877-6252
N6ST	Steve Thomas	13707 Skyline Boulevard	Los Gatos	CA	95030	408 741-1203	415 694-2617
N6SUZ	Tim Bornemann	7605 Dorchester Way	Stockton	CA	95207	209 477-7555	
W6SYL	Paul Letsinger	23 Vine Street	San Carlos	CA	94070	415 591-1913	
W6SZN	Kip Edwards	3144 Brittan Avenue	San Carlos	CA	94070	415 598-9468	415 773-5444
NA6T	Bob Smith	320 Park Street	Fort Bragg	CA	95437	707 964-4931	707 964-5915
NH6T	Reg Olson	1420 Spring Hill Road #325	McLean	VA	22102	415 457-1705	
N6TIB	Bill Philpott	26985 Spring Court	Pioneer	CA	95666	209 295-3732	
N6TJ	Jim Neiger	P.O. Box 4355	Orange	CA	92613	714 998-5998	213 649-3477
K4TKM	Brook Byers	3636 Washington Street	San Francisco	CA	94118	415 563-2430	
K6TMB	Lou Beaudet	1395 Morton Avenue	Los Altos	CA	94024	415 969-3017	408 744-7317
N6TU	Bruce Swearingen	1009 Riverside Drive	San Jose	CA	95125	408 295-3583	
N6TV	Bob Wilson	51 Cheltenham Way	San Jose	CA	95139	408 629-9480	408 463-3194
AE6U	Scotty Williams	US Embassy-Belize-VOA	Washington	DC	20521		
K4UVT	Bob Dorsey	P.O. Box 2020	Lancaster	CA	93584	805 940-3912	
KI3V	Rich Hallman	11870 Heartpine Street	Reno	NV	89506	702 677-2943	702 788-4569
AI6V	Carl Cook	11407 Tower Hill Road	Nevada City	CA	95959	916 265-2211	415 685-1030
AJ6V	Ed Radio	25811 Estacada Drive	Los Altos Hills	CA	94022	415 941-6515	415 852-5379
WA6VEF	Gary Caldwell	P.O. Box 8014-56	Blaine	WA	98230	604 941-5513	
W6VG	Ron Pantan	5 Cedar Court	Menlo Park	CA	94025	415 854-4814	
KF6VU	Jim Boyer	2357 8th Street	Livermore	CA	94550	415 447-9273	408 423-6551
KA6W	Ted Algren	12324 Skyline Blvd.	Los Gatos	CA	95030	408 867-6226	415 948-6533
W6WB	Bud Bane	155 Saint Elmo Way	San Francisco	CA	94127	415 584-7923	415 586-4386
K6WJ	Mark Montrose	2353 Mission Glen Drive	Santa Clara	CA	95051	408 247-5715	408 991-7829
W6XB	Ken Crandall	1172 Hyde Avenue	San Jose	CA	95129	408 996-7884	408 943-0777
N6XI	Rick Tavan	20297 Hickory Hill Way	Saratoga	CA	95070	408 867-5797	415 325-1025
K6XV	Bob Frizzell	1194 Blanc Court	Pleasanton	CA	94566	415 462-2307	408 735-3919
W6XX	Pete Gaddie	355 Solana Drive	Los Altos	CA	94022	415 941-3354	415 859-3945
W16Y	Mary Bradshaw	21 Altamont Drive	Orinda	CA	94563	415 376-0762	
KI6YB	Charlie Southall	4076 Sunset Lane	Pebble Beach	CA	93953	408 625-3651	415 781-8345
W0YK	Ed Muns	P.O. Box 1877	Los Gatos	CA	95031	408 739-5170	408 447-2244
W6YKM	Fred Honnold	17890 Sharon Court	Pine Grove	CA	95665	209 296-4994	209 223-4490
WA0YQM	Larry Eker Jr.	33066 Marsh Hawk Road	Union City	CA	94587	415 489-3074	415 369-5111
K6YT	Fred Canham	691 Casita Way	Los Altos	CA	94022	415 948-9238	
WZ6Z	Howard Brainen	11110 Monan Street	Oakland	CA	94605	415 562-1716	415 527-6900
N6ZB	Bob Dunn	2623 Bonbon Drive	San Jose	CA	95148	408 238-3219	415 475-2188
KE6ZE	Dave Engle	1063 Summerwood Court	San Jose	CA	95132	408 251-2910	408 473-4419
W0ZZ	John Zicarelle	351 La Cuesta Drive	Portola Valley	CA	94028	415 854-2470	415 858-6442
AA6MC	Dick Dievendorf	Courtlands Main Road Itchen Abbas	Winchester	England	2021 1AT		
KI6P	Sakae Muto	2-6-3 Otowa Bunkyo-ku	Tokyo	Japan	112	0423-96-4698	
VE7NKI	Niki Bloom	1581 Fraser #55	Port Coquitlam	BC	V3B 1M6	604 941-5513	604 432-4388

Because of the tremendous interest generated in this series, the author, Hugh Cassidy, W6AUD completely revised "The Odd One" so that we may read the most up-to-minute info.

Last month Cass told us how to get the honey out of the comb, plus a little about honey colors and granulation. This month Cass continues that subject, then tells us where to get bees.

The exciting narative continues.....

THE ODD ONE
by Hugh Cassidy, W6AUD
Chapter IV
BUYING BEES

Why does the honey from some bees granulate and not others. Place it on the enzyme invertase. Perhaps you have sometimes wondered how you can buy dipped chocolate candies with soft, liquid centers. Bees learned all about invertase centuries, no, let's say millennia, back. The humans found out about it but recently. It's all in the enzymes.

Fermentation can be indicated by small bubbles on the honey. This can also cause the honey to have a sour taste. You can also detect an unmelicose smell. Air bubbles trapped in newly bottled honey are of no concern, these being trapped when the honey is bottled. The trapped bubbles of air will gradually move to the top of the container and the honey will clear.

where do you get bees? You buy them by the pound. Bees will run about \$000 to the pound, packaged bees usually are sold in two pound or three pound packages along with a fertile queen. There are two monthly bee magazines and packaged bees are advertised in their pages, along with a lot of other interesting items.

Actually, there is a big package bee business in Northern California and you can either order the bees shipped by mail or you can make arrangements to drive to the apiary and pick them fresh. Vacaville has a number of such outfits, a visit to one of them can be memorable.

It might be more searchable if you do not bring a head veil with you. And it is interesting to see the gallant beekeeper, working bare-arsed among a hundred or more hives in front of his work building, putting a funnel into a snipping box and shaking two or three pounds of bees out of a hive. Add a can of liquid rations to sustain the bees on their journey to their new home and a queen bee in a little cage and the loaded package is nailed tight, ready to go. A smoker is always at hand during these packagings, you can show your familiarity with beekeeping by nonchalantly using the apiarist's smoker to smoke your ears and hands. Naturally you will be there with bare ears and the great nonchalance. Naturally there will be bees flying all over the place. Naturally, being upset that their home is being taken apart, they will try to get in a nip or two. Naturally your veil will thwart them. Naturally you will drive home down the freeway nonchalantly ignoring the bees sitting behind the front seat of the car. Naturally there will be a few loose ones flying around. Just ignore them. Be nonchalant, always.

Surprisingly, you will find that they will also ignore you. If you begin to think you are starring in a late night horror show, either just pretend they are not there or stop the car as soon as you note them and urge them to leave the car. However, they often go all the way, riding the roads to the new little nest in the west. Actually, they are more interested in getting close to the queen than bothering you. Really!

Northern California Contest Club
1991-1992 Budget
6/20/91

Revenue

Dues	\$3,600
Advertising Revenue	\$670

Total Revenue	\$3,670
---------------	---------

Expenses

Jug	\$1,800
QRP	\$1,000
Membership Awards	\$1,000
Vacalia Hosp.	\$200
Sponsored Awards	\$100
Contingency/Misc	\$200

Total Expenses	\$4,300
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Shortfall	(\$630)
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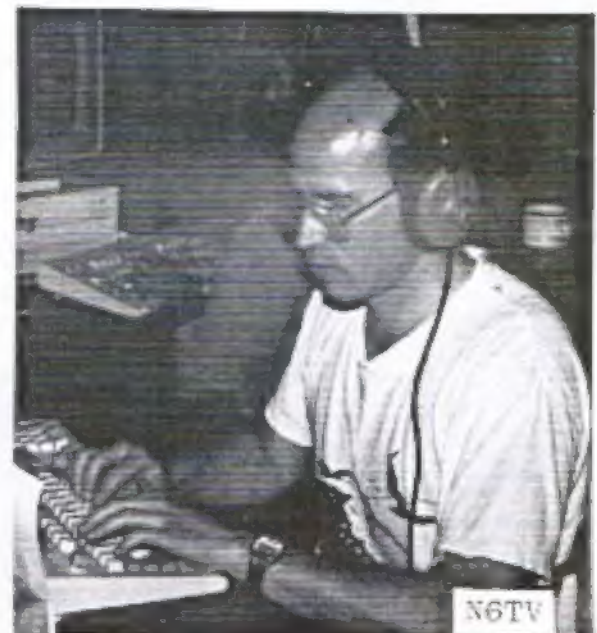
NCCC Treasurer's Report July 1, 1990 through June 30, 1991

	BUDGET	TO DATE
Membership Dues, divisions	\$2,250.00	\$2,512.25
JUG and Roster Ads	\$500.00	\$670.00
JUG and Roster Publishing	(\$1,000.00)	(\$1,914.51)
QRP	(\$1,100.00)	(\$1,101.74)
Membership Awards	(\$600.00)	(\$571.62)
Vacalia Hospitality	(\$200.00)	\$0.00
Self-funding Events	\$0.00	(\$26.27)
Sponsored Awards	(\$150.00)	(\$100.00)
Contingency Fund	(\$200.00)	(\$211.47)
Total	(\$500.00)	(\$103.40)

Notes:

As of June 30, 1991, the balance in our Wells Fargo checking account is \$437.54. (This reported fund does not belong to the club) will no longer include it in the Treasurer's report.

Respectfully Submitted, Henry Stewart, Secretary/Treasurer, NCCCLD
6/20/91



MINUTES OF JUNE DIRECTORS' MEETING

The regular board of Directors' meeting was held at 6 PM, Friday June 21 at the Wagon Wheel. Louese, KA6ING; Ace, N3AHA; John, W0ZZ; Jack, W6ISQ; Jim, WA6SDM, and Henry, KJ6LD were there.

Howard, WZ6Z, has resigned from the board. His business commitments were too great to allow him to properly serve. His place has been taken by John, W0ZZ.

The picnic will be held at Coyote Point, August 24, as previously announced. It will be a southern style barbecue. The menu includes: Corn on the Cob, Pork Ribs, Chicken, Bean Salad / Green Salad, Potatoes, and Watermelon.

The Christmas party will be held at Miguel's on December 21. They are currently remodeling some of the banquet rooms, and we have been assured that one of them will be ready for us in December.

The next regular meeting will be held at Miguel's in Hayward on the 3rd Friday of July. Social hour starts at 6 p.m., dinner at 7. Board of Directors' regular meeting will also be held at Miguel's on the same day, starting at approximately 5:30-6:00 p.m.

Respectfully submitted
Henry KJ6LD, Secretary/Treasurer

THE SOLAR STORM OF JUNE 1991

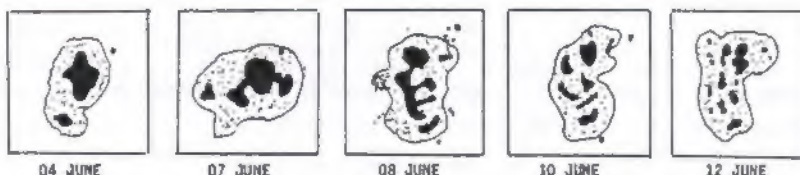
Al Lotze, W6RQ

The first through the thirteenth of June gave us what will surely be considered the largest solar storm since we have had modern measuring capabilities. In the past, as in March 1989, we may have had one enormous flare which saturated our satellite sensors; in this storm we had four of these X12 flares, as well as many smaller ones.

The intensity of solar flares is classified by the level of X-ray radiation as measured by the GOES-6 and GOES-7 satellite's X-ray sensors. Unfortunately, these sensors saturate at the X12 level (12×10^{-4} watts / square meter at the Earth). With a duration of almost four hours, the X12 flare of 4 June released a tremendous amount of energy. The total energy produced by one of these superflares is considered to be equal to the total U.S. energy requirement for 100,000 years, or the energy output of 100 million hydrogen bombs! Fortunately for us, this all goes on 93,000,000 miles from Earth.

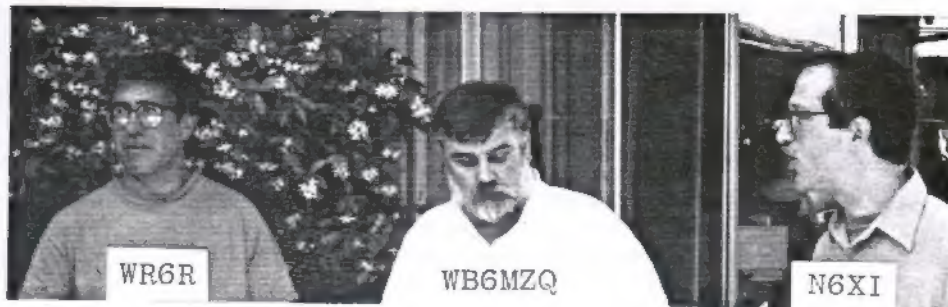
What happened to radio propagation? With two weeks of Sudden Ionospheric Disturbances, D-layer absorption, Proton Events, Polar Cap Absorptions, Auroras, and violent Noise Storms, for most hams the "big switch" was pulled for most bands. Still, there were after-dark openings, mostly transequatorial and on the lower frequency bands.

The good radio propagation measuring stick is the geomagnetic A-Index which we hear updated on WWV at 2118 UT. The WWV Solar Terrestrial Report was at 1818 UT until 8 June at which time the Canadians shifted their Solar Flux measurement from the Algonquin Observatory in Ontario to their Penticton site in British Columbia. For a day with really good worldwide radio propagation we want an A-Index of 10 or lower (a low A-Index for yesterday also seems to help). The average Boulder A-Index for April 1991 was 13.2, for May 14.6. For the first 13 days of June the average was 52! The peak A-Index day was the fifth, with a Boulder Index of 151. Of course, we have had days in the past with higher figures, the 13th and 14th of March 1989 figures were 155 and 175. But that storm was of short duration; the A immediately dropped to below 40 even with several X3 and X6 flares.



Were our eyeball observations of the Sun of interest? We saw a neat corroboration of the theory that a sunspot region will probably be a flare-producer when the spots tend to rearrange themselves rapidly. Our subject sunspot region, officially titled Region 6659, was unique in that it had only one large significant spot. But he had an area 2000 one-millionths of the Sun's visible surface. That's BIG, a 600 is considered naked-eye visible - we actually saw this spot without the telescope - just held the very dark solar filter in our hand and there he was.

Most of the sunspots we draw have the exciting contours of a potato. But this big spot of Region 6659 went from plain ordinary to a couple of exotic configurations before the big flare of the ninth collapsed his magnetic field and blew him to pieces. The spot group departed over the West limb on Sunday, 16 June. Boulder thinks the M5 flare at 0355 on the 17th was his parting shot. Even from the Sun's backside, somehow an A-Index of 37 was developed.



Membership Meeting
June 21

This month we met at the Wagon Wheel in Mountain View. 15 members and one guest enjoyed the hospitality of fellow contesters as we swapped fish stories about "the one that got away" around the bar. I think I also heard Jim W6CF start up a discussion about the weighty issue of "how many DXCC members could dance on the head of a pin."

We sat down to eat at approximately 7 PM with our choice of beef, chicken, or fish. Louese opened up the meeting with an introduction of our new board member, John W022. She also talked about the picnic and Christmas party.

The increase in dues from \$20 to \$24 a year was also announced. The proposed 1991-1992 budget was also presented to the membership for a vote. The largest area of concern expressed by the membership was how to continue the high quality of the Jug. Alex K1612 reminded people of the fact that there was no Jug during parts of 1989, and pointed out that the club interest was quite low as a result. Several board members explained that they had both a responsibility to maintain a high quality Jug along with a fiscal duty not to put the club into poor financial conditions. The board felt that the budget was an effective compromise which shouldn't detract from the Jug, yet still be fundable with dues and donations. The membership then voted to accept the budget as written. (A copy of the budget is included in this issue of the Jug.)

The program was a discussion of a questionnaire generated by Rush Drake W7RM. Rush felt that changes were necessary in the NREI contests, and generated a questionnaire which he circulated to approximately 140 contesters he knew. He has received quite a few replies, and the results of that mailing will be in next month's NCJ. He is also soliciting other people's comments through the NCJ and other routes. Rush will tabulate them and forward the specific comments and summaries to members of the CAC.

Ace N3NHA led the discussion. Each person present was given a questionnaire to fill out. Ace summarized Rush's rationale for each change. The membership then discussed the issue, after which each member individually filled out that part of the questionnaire. After we completed the discussion, Ace collected the questionnaires to send to Rush. If anyone that wasn't at the meeting wants a copy of the questionnaire, it will be printed in the NCJ, or you can ask Ace for a copy.

Louese reminded everyone of the field day activities at the QTH of SK Phil W6ZM. After that, we adjourned to get enough sleep to stay awake for field day.

1991 - 1992 NCCC DUES

Name: _____

Call _____

DUES.....\$ 24.00

EXTRA DONATION.....\$

Do you want your extra donation acknowledged in the JUG?

YES _____ NO _____

TOTAL ENCLOSED.....\$

What can you suggest to increase NCCC cash in the bank? A
DUB IOU for best ideas.

Louese thanks you, Ace thanks you, Henry thanks you, all
Directors thank you, I thank you, and so does George M. Cohan.

Send dues to Henry.KJ6LD. Roster QTH.



W6BSY Grandpa



KC6QEA Granddaughter



KB6VVX & N6EK
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